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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/724,021	ORR ET AL.			
Office Action Summary	Examiner	Art Unit			
	DIANNE DORNBUSCH	3773			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>29 Sec</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for allowant closed in accordance with the practice under Expression.	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-7,9-13,15-18,20 and 21 is/are pendi 4a) Of the above claim(s) 20 and 21 is/are without  5) Claim(s) is/are allowed.  6) Claim(s) 1-7,9-13 and 15-18 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or	drawn from consideration.				
9) The specification is objected to by the Examiner  10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the construction of the construct	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 8/4/10.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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### **DETAILED ACTION**

## Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on August 4, 2010 is being considered by the examiner.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 9-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Perier (4,863,072) in view of Ritcher et al. (4,232,670).

  Claims 1-3:

Perier discloses a first component (12) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 1-2), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 1-2); and a second component (14) having an elongate body (Fig. 2 and 6) with a blunt tip (48) at a distal end (Fig. 2 and 6), the tip having a diameter less than the diameter of the elongated body (Fig. 2 and 6), the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 1 and 7), the second component including at least one sealing ring (23) around the elongate body proximal to the tip (Fig. 2 and 5).

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Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the first component has a funnel shaped proximal end.

Ritcher discloses a first component (combination of 10, 20, and 40) with a funnel shaped proximal end (40) as seen in Fig. 1. Ritcher further discloses that the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 1) and that the first, flared portion has a curved tapered shape (Fig. 1).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Perier with a funnel shaped proximal end in view of the teachings of Ritcher, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claims 4 and 15: Perier in view of Ritcher discloses the claimed invention except for the diameter of the flared portion is between 15 to 50 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the flared portion is between 15 to 50 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

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Claim 5: Perier in view of Ritcher discloses the claimed invention except for the diameter of the tubular portion is between 5 to 17 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the tubular portion is between 5 to 17 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. Claims 9-11:

Perier discloses a first component (12) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 1-2), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 1-2); and a second component (14) having an elongate body (Fig. 2 and 6) with a blunt tip (48) at a distal end (Fig. 2 and 6), the tip having a diameter less than the diameter of the elongated body (Fig. 2 and 6), the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 1 and 7), the second component including at least one sealing ring (23) around the elongate body proximal to the tip (Fig. 2 and 5).

Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the insertion rod further includes a pair of sealing rings around the elongate body.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have a second sealing ring since the examiner is taking Official Notice that the use of a second sealing ring is well known in the art in order to control the sliding resistance between the first components and the second component as well as providing a seal.

Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the first component has a funnel shaped proximal end.

Ritcher discloses a first component (combination of 10, 20, and 40) with a funnel shaped proximal end (40) as seen in Fig. 1. Ritcher further discloses that the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 1) and that the first, flared portion has a curved tapered shape (Fig. 1).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Perier with a funnel shaped proximal end in view of the teachings of Ritcher, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claim 12: Perier in view of Ritcher discloses the claimed invention except for the diameter of the tubular portion is between 6 to 17 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the tubular portion is between 6 to 17 mm, since it has been held that where

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the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claim 13: Perier in view of Ritcher discloses all the claimed limitations discussed above except the second, tubular portion has a diameter in the range of about 7 mm to about 9 mm. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Perier in view of Ritcher with the diameter range since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

4. Claims 1-5, 9-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Perier (4,863,072) in view of Evans et al. (2004/0204715)

Claims 1-5:

Perier discloses a first component (12) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 1-2), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 1-2); and a second component (14) having an elongate body (Fig. 2 and 6) with a blunt tip (48) at a distal end (Fig. 2 and 6), the tip having a diameter less than the diameter of the elongated body (Fig. 2 and 6), the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 1 and 7), the second component including at least one sealing ring (23) around the elongate body proximal to the tip (Fig. 2 and 5).

Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the first component has a funnel shaped proximal end.

Evans discloses a first component (300) having a funnel-shaped proximal end (320), a distal end (330), and an elongate, hollow body (310) extending therebetween (Fig. 2), wherein the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 5); wherein the first, flared portion has a curved tapered shape (Fig. 2 and 5); wherein the flared proximal end of the first component has a diameter in the range of about 15 mm to about 50 mm ([0048]); and wherein the second, tubular portion has a diameter in the range of about 5 mm to about 17 mm ([0042]).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to substitute the first component of Perier with the funnel shaped first component of Evans, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

# Claims 9-12 and 15:

Perier discloses a first component (12) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending

therebetween (Fig. 1-2), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 1-2); and a second component (14) having an elongate body (Fig. 2 and 6) with a blunt tip (48) at a distal end (Fig. 2 and 6), the tip having a diameter less than the diameter of the elongated body (Fig. 2 and 6), the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 1 and 7), the second component including at least one sealing ring (23) around the elongate body proximal to the tip (Fig. 2 and 5).

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Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the insertion rod further includes a pair of sealing rings around the elongate body.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have a second sealing ring since the examiner is taking Official Notice that the use of a second sealing ring is well known in the art in order to control the sliding resistance between the first components and the second component as well as providing a seal.

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Perier teaches all the claimed limitations discussed above however, Perier does not disclose that the first component has a funnel shaped proximal end.

Evans discloses a first component (300) having a funnel-shaped proximal end (320), a distal end (330), and an elongate, hollow body (310) extending therebetween (Fig. 2), wherein the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 5); wherein the first, flared portion has a curved tapered shape (Fig. 2 and 5); wherein the flared proximal end of the first component has a diameter in the range of about 15 mm to about 50 mm ([0048]); and wherein the second, tubular portion has a diameter in the range of about 5 mm to about 17 mm ([0042]).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to substitute the first component of Perier with the funnel shaped first component of Evans, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claim 13: Perier in view of Evans discloses all the claimed limitations discussed above except the second, tubular portion has a diameter in the range of about 7 mm to about 9 mm. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Perier in view of Evans with the diameter range since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

5. Claims 9-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masano (5,221,348) in view of Ritcher et al. (4,232,670).

### Claims 9-11:

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Masano discloses a first component (2) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 2b), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 2b); and a second component (3) having an elongate body (12) with a blunt tip (25) at a distal end (Fig. 1), the tip having a diameter less than the diameter of the elongated body (Fig. 1) the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 1), the second component including a pair of sealing rings (23 and 24) around the elongate body proximal to the tip (Fig. 1).

Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Masano teaches all the claimed limitations discussed above however, Masano does not disclose that the first component has a funnel shaped proximal end.

Ritcher discloses a first component (combination of 10, 20, and 40) with a funnel shaped proximal end (40) as seen in Fig. 1. Ritcher further discloses that the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 1) and that the first, flared portion has a curved tapered shape (Fig. 1).

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It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Masano with a funnel shaped proximal end in view of the teachings of Ritcher, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claim 12: Masano in view of Ritcher discloses the claimed invention except for the diameter of the tubular portion is between 6 to 17 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the tubular portion is between 6 to 17 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claim 13: Masano in view of Ritcher discloses all the claimed limitations discussed above except the second, tubular portion has a diameter in the range of about 7 mm to about 9 mm. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Masano in view of Ritcher with the diameter range since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Claim 15: Masano in view of Ritcher discloses the claimed invention except for the diameter of the flared portion is between 15 to 50 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the flared portion is between 15 to 50 mm, since it has been held that where

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the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

6. Claims 1-7, 9-13, and 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Discko, Jr. (5,324,273) in view of Ritcher et al. (4,232,670). Claims 1-3 and 6:

Discko discloses a first component (10) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 3), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 3); and a second component (26) having an elongate body (Fig. 1) with a blunt tip (30) at a distal end (Fig. 1), the tip having a diameter less than the diameter of the elongated body (Fig. 1 where the tip is tapered to a smaller diameter), the elongate body being configured to be removably disposed within the first component for sliding along the passageway (Fig. 3), the second component including at least one sealing ring (28) around the elongate body proximal to the tip (Fig. 1). Discko further discloses that the tip of the second component comprises a spherical tip (Fig. 1).

Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Discko teaches all the claimed limitations discussed above however, Discko does not disclose that the first component has a funnel shaped proximal end.

Ritcher discloses a first component (combination of 10, 20, and 40) with a funnel shaped proximal end (40) as seen in Fig. 1. Ritcher further discloses that the passageway includes a first, flared portion extending into a second, tubular portion (Fig. 1) and that the first, flared portion has a curved tapered shape (Fig. 1).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Discko with a funnel shaped proximal end in view of the teachings of Ritcher, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claims 4 and 15: Discko in view of Ritcher discloses the claimed invention except for the diameter of the flared portion is between 15 to 50 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the flared portion is between 15 to 50 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claim 5: Discko in view of Ritcher discloses the claimed invention except for the diameter of the tubular portion is between 5 to 17 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the tubular portion is between 5 to 17 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

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<u>Claims 7, 17, and 18:</u> Discko in view of Ritcher teaches all the claimed limitations discussed above however, Discko in view of Ritcher does not disclose that the spherical tip has a diameter in the range of about 6 mm to about 10 mm and more specifically between 6-8 mm.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Discko with the diameter range since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272,205 USPQ 215 (CCPA 1980).

Furthermore, the differences in concentration, temperature, size, or pressure will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration, temperature, size, or pressure is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454,456, 105 USPQ 233, 235 (CCPA 1955). See MPEP 2144.05 (11) Claims 9-11 and 16:

Discko discloses a first component (10) for receiving and dispensing the tissue scaffold having a proximal end, a distal end, and an elongate, hollow body extending therebetween (Fig. 3), the elongate body defining a passageway extending from the proximal end to the distal end (Fig. 3); and a second component (26) having an elongate body (Fig. 1) with a blunt tip (30) at a distal end (Fig. 1), the tip having a diameter less than the diameter of the elongated body (Fig. 1 where the tip is tapered to a smaller diameter), the elongate body being configured to be removably disposed

within the first component for sliding along the passageway (Fig. 3), the second component including at least one sealing ring (28) around the elongate body proximal to the tip (Fig. 1). Discko further discloses that the tip of the second component comprises a spherical tip (Fig. 1).

Regarding the statement that the first component is for receiving and dispensing the tissue scaffold and that the second component slides along the passageway, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Discko teaches all the claimed limitations discussed above however, Discko does not disclose that the insertion rod further includes a pair of sealing rings around the elongate body.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have a second sealing ring since the examiner is taking Official Notice that the use of a second sealing ring is well known in the art in order to control the sliding resistance between the first components and the second component as well as providing a seal.

Discko teaches all the claimed limitations discussed above however, Discko does not disclose that the first component has a funnel shaped proximal end.

Ritcher discloses a first component (combination of 10, 20, and 40) with a funnel shaped proximal end (40) as seen in Fig. 1. Ritcher further discloses that the

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passageway includes a first, flared portion extending into a second, tubular portion (Fig. 1) and that the first, flared portion has a curved tapered shape (Fig. 1).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Discko with a funnel shaped proximal end in view of the teachings of Ritcher, in order to simplify the filling of the first component by using a funnel which would prevent spilling.

Claim 12: Discko in view of Ritcher discloses the claimed invention except for the diameter of the tubular portion is between 6 to 17 mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a diameter of the tubular portion is between 6 to 17 mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claim 13: Discko in view of Ritcher discloses all the claimed limitations discussed above except the second, tubular portion has a diameter in the range of about 7 mm to about 9 mm. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Discko in view of Ritcher with the diameter range since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

# Response to Arguments

7. Applicant's arguments, filed September 29, 2010, with respect to the rejection(s) of claim(s) 1-7, 9-13, and 15-18 have been fully considered and are persuasive.

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Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

9. Applicant's amendment filed May 27, 2010 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIANNE DORNBUSCH whose telephone number is (571)270-3515. The examiner can normally be reached on Monday through Thursday 7:30 am to 5:00 pm Eastern.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. D./ Examiner, Art Unit 3773

/(Jackie) Tan-Uyen T. Ho/ Supervisory Patent Examiner, Art Unit 3773